

App. No. 10/056,251
Amdt. dated October 6, 2004
Reply to Office Action of May 17, 2004

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (canceled)

Claim 21 (currently amended): A device for application of active substances to a wound surface, said device comprising:

a padding of porous material adapted for application upon a wound surface,

a sealing cover for covering the wound surface and the padding and adapted to be sealingly applied to the skin surface,

at least one supply line introduced into the padding for supplying a fluid active substance, and

at least one removal line introduced into the padding for removing said active substance, ~~said the~~ removal line connectable to a vacuum source,

wherein ~~said the~~ supply line is provided with a controllable closure mechanism, ~~said the~~ removal line is provided with a controllable closure mechanism and a controller is provided which temporally controls these closure mechanisms so that the closure mechanism of the supply line and the closure mechanism of the removal line are not open at the same time and that in the time interval between the closure of the closure mechanism of the supply line and the opening of the closure mechanism of the removal line a treatment dwell time interval is provided.

Claim 22 (previously presented): The device according to claim 21, wherein said padding is comprised of an elastic compressible porous material.

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Claim 23 (previously presented): The device according to claim 22, wherein said padding is comprised of an open pored PVA-foam material.

Claim 24 (previously presented): The device according to claim 21, wherein the sealing cover is a flexible foil, which is air tight yet permeable to water vapor.

Claim 25 (currently amended): The device according to claim 21, wherein said the supply line and said the removal line are introduced into the padding via a common drainage hose.

Claim 26 (currently amended): The device according to claim 21, wherein said the supply line and said the removal line are respectively introduced into the padding via separate drainage hoses.

Claim 27 (previously presented): The device according to claim 21, further comprising a controller for controlling the timing of the opening process of the closure mechanism of the supply line.

Claim 28 (previously presented): The device according to claim 21, further comprising a controller for controlling the opening process of the closure mechanisms of the removal line.

Claim 29 (previously presented): The device according to claim 21, wherein said controller, after a suctioning period, determines a vacuum time interval in which a predetermined vacuum is maintained in the padding.

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Claim 30 (previously presented): The device according to claim 21, further comprising a pressure sensor adapted to be introduced under the sealing cover, and operably connected with said controller.

Claim 31 (previously presented): The device according to claim 21, wherein the closure mechanisms are electromagnetic, pneumatic or hydraulic operated hose clamps.

Claim 32 (currently amended): The device according to claim 31, wherein at least one of ~~said the~~ supply line and removal line are constructed as a hose, wherein said hose clamps have a receptacle for receiving ~~said the~~ supply line or removal line, and wherein said hose clamps have a piston responsive to said controller and adapted for squeezing said hose against a hose claim sidewall.

Claim 33 (previously presented): The device according to claim 21, wherein said closure mechanisms are multi-way valves.

Claim 34 (previously presented): The device according to claim 33, wherein said multi-way valves are operable via a step motor controlled by said controller.

Claim 35 (previously presented): The device according to claim 21, wherein said controller is programmable electronic controller.

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Claims 36-39 (canceled)

Claim 40 (currently amended): A device for application of substances to a wound surface,
said device comprising

a padding of porous material adapted for application upon a wound surface,
a sealing cover for covering the wound surface and the padding and adapted to be
sealingly applied to the skin surface,
at least one supply line introduced into the padding for supplying a substance, and
at least one removal line introduced into the padding for removing said substance, ~~said~~
the removal line connectable to a vacuum source,
wherein ~~said~~the supply line is provided with a controllable closure mechanism, ~~said~~the
removal line is provided with a controllable closure mechanism and a controller is provided
which temporally controls these closure mechanisms so that the closure mechanism of the supply
line and the closure mechanism of the removal line are not open at the same time and that in the
time interval between the closure of the closure mechanism of the supply line and the opening of
the closure mechanism of the removal line a treatment dwell time interval is provided.